THE TECH

DAILY

VOL. XXIX. NO. 46. BOSTON, MASS., SATURDAY, NOVEMBER 20, 1909 PRICE ONE CENT

TECH SHOW DINNER AT THE UNION TONIGHT

Coach Francis To Speak And Selection Of New Show Announced

According to all indications the Tech Show dinner will again break the record for the largest dinner of the year at the Union. Manager Wilson reports an unusually large sale of tickets by the heelers in the business department, and the list of speakers alone would warrant a large atendance.

Dudley Clapp 1910, general manager, will be the toastmaster for the evening, and will keep the ball of fun rolling merrily along. The management has been fortunate enough to get President Maclaurin to speak to those present, if he returns in time from a trip he is taking. This will be the first time that he has been to a Show dinner, but he expressed his hearty congratulations to the management on last year's performance, and said he hoped by all means to be at the first dinner this year. Prof. D. C. Jackson of the electrical engineering department is the other speaker from the faculty, and all may confidently look forward to an interesting and enjoyable talk from one who has always expressed himself as thoroughly in sympathy with the various student activities. It is not very often that the men are given the opportunity to hear one of the former general managers give some experiences of his day in the Show, but this year Mr. Emerson, general manager Tech Show 1904, will be at the dinner and will probably tell of the Show as he knew it. Managers Wilson, Greenleaf and Davis of the business, stage and publicity departments respectively will explain the objects and scope of their work, and the opportunities open to the men of different tastes. When the envelope containing the name of the winning author is opened he will be called upon to tell something of the plot and general scheme of Tech Show 1910.

Everybody that has ever come into connection with Mr. Francis in his work with the Show is looking forward with a great deal of pleasure to seeing him again tonight and hearing some stories that are always good. Mr. Francis will also probably tell the men about his end of the Show and the work of the cast and chorus.

The dinner is to begin promptly at six o'clock, so as to enable all men to be in time for the big celebration which is sure to occur after the Yale-Harvard game in the afternoon. Tickets may be purchased from any of the heelers in the business department, at the Cage, or from H. C. Davis 1911, or H. L. Woehling 1912.

Y. M. C. A. MEETING

WHAT IS BOSTON-1915?

This question was asked continually before the opening of the Exposition across the way. The ponderous nature of the movement demanded a broad statement— which statement is now pictured within the walls of the Old Art Museum building. But the picture demands study. Have you time for this? Learn its meaning through one who is at the center of the activity. At 6.45 tomorrow night at the Union, comes your opportunity to hear a word of explanation. Dr. Walter Laidlaw, temporarily in charge of Boston—1915 volunteers, secretary of the Federated Churches of New York city, at the invitation of Tech. Christian Association will be there and will interpret the Exposition.

INTERESTING ARTICLES BY TECH PROFESSORS

"English in a Scientific School" and "Chem. Lab. Construction" The Subjects

Three articles have recently been published in "Science" which should be of especial interest to Tech men. An article on "The Teaching of English in a Scientific School," by Prof A. T. Robinson of the Institute staff, appeared in the issue of Nov. 12. Other recent issues contain an article by Prof. A. H. Gill, also of the Institute staff, entitled "Suggestion for the Construction of Chemical Laboratories," and one by Dr. N. A. Dubois, of the Case School of Applied Science, discussing "Teaching by the Lecture System."

In a school where exact sciences are fundamental, the teacher of English faces, in many ways, a special problem. Although the study of English would at first glance seem an unnecessary extra in a crowded curriculum like that at the Institute, yet the subject is really an important one. If taken up systematically, English composition may be made the basis of a logical cultivation of the thinking powers and the means of stimulating the powers of observation.

Nearly every engineering student entering the Institute, comes with strongly conceived prejudices against the study of English. The works prescribed as requirements for college preparation are in general by no means the best or most noble of the classics, and "literature," which he has taken like medicine in prescribed doses, appears to such a student dry, silly, or incomprehensible. Neither can he see any special need of the art of composition in his intended line of work.

The teacher, lin combating these prejudices, has a delicate task. He must give the student's undeveloped mind respect for its own productions, and try to show him a rational aim in writing, and an attitude of mind, easily attainable, which will lead to success. At the same time he must remove, as far as possible, the embarassment of his own too critical presence.

The first result may be attained largely by requiring the student at the outset to select his own subjects, as success can only come with topics about which he cares and knows. The too embarassing personal criticism of the teacher may be largely removed by substituting correction by fellow-students. The class at large is, however, in most cases not a fit audience, as it seems to demand too much from the inexperienced writer. Individual critics chosen from among the students give better results. This plan cannot be followed exclusively, however, as while one's fellow-students are severe critics, they are not usually sympathetic, and due credit would often not be given. Correction on the part of the teacher must, to accomplish its purpose, be in a spirit of liberality and sympathy with the student's viewpoint. Criticism should be based on the idea that the student has failed to get the desired result in that he has not brought his arguments home conclusively to his reader. This will do much to create in the student the feeling that English composition is, after all, a practical art, useful to a great extent in the business of dealing with men, for which he is being trained. At present a much needed feature in English training at scientific schools is practice in the compilation of actual engineering reports.

According to Dr. Dubois, in his article, the lecture system is, under existing conditions, undoubtedly the best one for the teaching of most sciences, provided

(Continued on page 3.)

MR. LOUIS BRANDEIS SPEAKS AT UNION

Workingmen's Insurance Discussed--Small But Interested Crowd Present

Last night but a small crowd of men was present at the Union to enjoy the pleasing personality and interestig lecture of Mr. Louis Brandeis.

Gorton James 1910, introduced Mr. Brandeis as the man who defended the State of Oregon before the Supreme Court of the United States when the validity of the Oregon female labor law was being tested. Mr. Brandeis is well known as a lawyer and economist. He formerly lectured at the Institute, giving the course now conducted by Mr. Albers.

Mr. Brandeis chose for his subject a question which, because of the broadness of its application may be ranked as the most important economic subject under discussion today. The insurance of the working man against the contingencies of life has become an absolute necessity in Europe, and is reaching the same stage in America. Mr. Brandeis first discussed the European and English methods of dealing with this difficult problem. The German system consists of a compulsory insurance-fund to which the employer, the employee, and the state contribute equally. From this fund old-age pensions, accident and sickness insurances are paid. The method has worked admirably, and has not only resulted in the alleviation of much suffering, due to unpreventable contingencies, but has actually resulted in a reduction of the number of accidents which incapacitate the laborer.

The Eglish system of old-age pension places the responsiblity of providing for the veterans of industry upon all the tax-payers. The government has undertaken to pay to each man, over seventy years old, and without an income of at least $50 per year, a weekly sum of $1.25. The burden thus placed upon the government is already perfectly enormous, and may be considered as unlimited if the same system is properly developed along other lines of insurance. Meeting this enormous burden is the hardest question which parliament has to solve.

Turning from Europe to America, Mr. Brandeis pointed out that this all-important question had received no consideration here until very recently. The subject has, of course, not been as pressing in the United States, because our population is younger on the average than that of the European countries. But it is high time that we were considerng this matter if we wish to avoid the terrible conditons of pauperism which have forced the matter to an issue in England.

The American laborer is no more able to provide against early accident or death than is his European brother; nor can he provide against old age and superannuation. It was pointed out that the city of Boston is annually paying the sum of $200,000 to men who have grown old in the service and are now unable to attend to their duties properly. If these men were retired it would mean for them misery and poverty. Evidently they cannot be turned out, and there is no provison for their retirement.

Neither the vigorous compulsory German system, nor the burdensome English one is applicable to American conditions. The problem with us is being solved in a number of ways. Probably one of the best of these methods is

(Continued on page 3.)

INTERCOLLEGIATE CROSS-COUNTRY THIS MORNING

Cornell Favorite For First Place But Other Teams Are Confident

All the cross-country teams arrived in town last night ready for their great race, and each team was confident of winning, though some said their men were not in the best of condition.

The ten colleges entered in the meet are Technology, Harvard, Yale, Pennsylvania, Cornell, Syracuse, Princeton, Dartmouth, Columbia and Michigan. Of these entries, Cornell enters the field with the best chance of winning. Technology, Yale, Pennsylvania and Syracuse have even chances for second place.

Harvard has shown up so poorly throughout the year's work that their team could hardly be a factor in the race.

Princeton and Dartmouth have teams entered, but in the case of Princeton, the team is without practice, and in the case of Dartmouth, the team is without experience.

Coach Kanaly has put a great amount of work into the cross-country training, and with such new and inexperienced material as he had, the team is doing remarkable work.

Full account of the race in Monday's Tech.

GYM. TEAM MEETS

W. D. Allen 1911 Chosen Capt. R. M. Jacoby 1910 Mgr.

At its first meeting this afternoon the Gym team elected officers and made plans for the coming year.

W. D. Allen 1911, was chosen captain, in the failure of the return of R. C. Jacobs 1910, elected last spring. R. M. Jacoby 1910 was elected manager.

The first meet, which comes in the middle of December, will be in the form of an exhibition. A meet with Columbia in February is planned and also one later with Amherst. Since Columbia was the Intercollegiate champion last year, the meet in February is sure to be of especial interest.

Anyone capable is eligible for the exhibition meet coming before Christmas. Training has begun and several good men are out, among them: B. Darrow 1910, G. Haque 1910, W. Schofield 1910, R. N. Doble 1912, A. G. Herrschoff 1912, H. S. Gott 1910, W. D. Allen 1911, H. O. Maxwell 1912 and S. H. Seelye 1912.

On the horizontal bar and on the parallel bars the men are showing up excellently. However, men are needed who are experienced with the horse and also thos who can tumble. It is realized that there is no incentive to giving the time beside the love of the work. The team hopes that the Athletic Association will recognize the existence of the Gym. team and, as is the case in other colleges, assume jurisdiction and grant such insignia as a TGT to the winner of first place in any intercollegiate match.

CALENDAR.

Saturday, November 20.

10:30 A. M.—Cross Country.
6:00 P M.—Show Kommers.

Sunday, November 21.

6:45 P M.—Y. M. C. A. at Union.

THE TECH.

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BOSTON, MASS., NOVEMBER 20, 1909

Music on the Union piano is lacking this year. It is almost a defect in the furnishng of the room. Last year the scores of the Tech Shows of previous years have always filled this vacancy.

Music adds greatly to the attraction of the Union. Many find time to play bits of it; many more to listen to and enjoy the pieces they have seen or acted. The Show music presents to Tech men as none other can the other side of Institute life, which the Show stands for more than any other activity. It also helps to perpetuate the good songs which die often so undeservedly, when the curtain falls for the last time in the April performances.

Let the Tech Show help the Union and the Union will do its part in helping the Show.

CURRENT EVENTS

The trustees of the Museum of Fine Arts announce the gift of $150,000 from R. D. Evans, recently recieved through his widow. Twenty-five thousand dollars of this amount completes Mr. Evans's large subscription to the building fund. Mr. Evans was a genuine lover of art, particularly of paintings. The Van Dyck which he gave the Museum has attracted much attention as has also the splendid double portrait by Rubens from his collection which has been lent to the Museum.

Harvard's Varsity eight defeated the water in a four-mile race on the second crew by a few feet of open Charles River last week. The winners gained six lengths in the last half of the race, following a collision with a launch.

HARE AND HOUNDS

Sunday afternoon will be the last opportunity for a walk over the Handicap cross-country course at West Roxbury. This is a good chance to get acquainted with the ground of the race which is to be held Nov. 27 and every man who is running should know the course thoroughly. The train leaves Back Bay station at 2.10 P. M.

FRESHMEN TAUGHT THE USE OF LOGIC

English Department Uses New Book By Prof. Bates In First Month

This summer Prof. Arlo Bates prepared a new plan of attack upon the freshmen minds. He has written a twenty-two page pamphlet, entitled, "First Year English, First Term. An Introduction to Composition."

This book was used by the class of 1913 for the first five weeks of this term. Prof. Bates' object in writing this book was to give the first-year students practice in reasoning. It is intended to train the beginners to think things out for themselves. The pamphlet lays stress on accuracy and clearness of reasoning.

The lessons in this pamphlet consists of one or two pages of text each, with a number of exercises at the end of every lesson. These exercises involve the use of the subject matter preceding them. The first chapters take up the classification of nouns and terms. Next comes a discussion of "Analysis and Synthesis" and "Definitions." Reasoning by means of sylogisms is taken up in detail. The final chapters are devoted to the causes of fallacies in reasoning.

The feature of Prof. Bates' new book that most impressed the freshman, was that it was a complete book by a Technology professor, and costs only fifteen cents.

A new instructor was added to the staff of the English department this fall. He is David Carb, A. B., Harvard 1909. Mr. Carb specialized in English composition and literature at Harvard. For three years he was editor of the "Harvard Monthly." He has also had considerable experience as a tutor in English.

ART EXHIBIT

Work By American Students Abroad Shown In Pierce Bldg.

During the week of Nov. 22, there will be an exhibit of artistic architectural work on the fourth floor of the Pierce building. The exhibit will be open to the public between 10 A. M. and 4 P. M. everyday next week. The work on exhibition is by American students in the American Academy at Rome. It consists of drawings, photographs and water colors.

The exhibition is under the auspices of the Architectural Society. It is in connection with the Architectural Club's smoker, at which Mr. L. E. Smith will be the speaker.

Mr. Smith is a graduate of Columbia University. He went to the American Academy at Rome on the McKim fellowship 1905-1907. Drawings made by him at Rome are in the exhibit. Other contributions are drawings by H. E. Warren, Harvard 1904, of West Somerville, who won the Appleton Fellowship of 1905 and W. L. Bottomley, Columbia 1906, who won the McKim Fellowship 1907. There are paintings by Paul Chalpin of New York, Alec Hoyle, Harvard 1904, and Ralph Varney, Harvard 1904. Another exhibit comprises photographs of sculptural work by Chas. Keck of New York.

This exhibition will show what the work is like in the American Academy at Rome. It also demonstrates the proficieney in architectural art that American students can attain.

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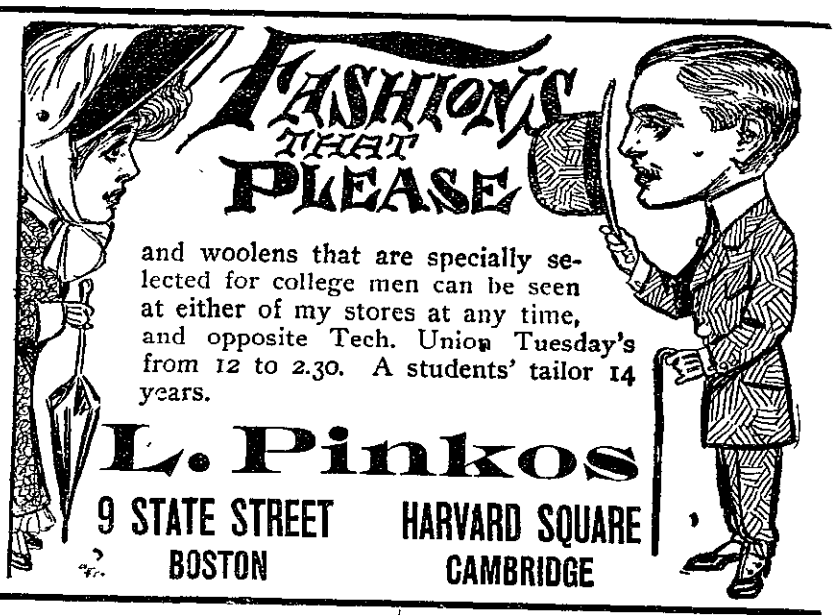

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INTERESTING ARTICLES

(Continued from page 1.)

it is properly carried out. A scientific subject, especially, should be presented in such a manner that it may be understood with the least possible expenditure of time and mental exertion by the student. It is not, however, alone sufficient to give a man bare knowledge, nor to teach any subject wholly from one point of view. The ideal course, for experimental sciences at least, seems to be the lecture course, supplemented by assigned readings in a suitable simple reference or text-book, and frequent recitations in the nature of conferences. On his own part, the lecturer must be careful in keeping his notes revised up to date.

Prof. Gill has presented some valuable suggestions in his paper. The main essential in chemical laboratory construction is material which will wear well and resist the action of fumes and acids always present. The best materials for the wall facing is white glazed brick. Ordinary brick painted white will serve, but care must be taken that there is no white lead in the paint. Asphalt, if properly laid, furnishes the best material for flooring, although well oiled birch or hard pine will do. The ideal ceiling is of matched boards, constructed after all floors have been laid, and coated with shellac or varnish. Plaster and cement break up under the action of acid fumes.

Material other than wood for the laboratory desks and lockers proves in the long run very unsatisfactory. Northern pine, whitewood, cedar, and California redwood are the best woods for this purpose.

The problems of ventilation and drainage are very important. Hoods, provided with fans, and outlets at top and bottom, are essential. Pipes and drains must be so placed that any portion of them may be reached at any time. Iron pipe should be used as far as possible, and care should be taken that pipes have sufficient capacity and fall. Drains should be of tile or pottery, and for sinks the ordinary round stone-ware washboard, provided with an overflow may be used.

UNION ENTERTAINMENT

(Continued from page 1.)

the one adopted by the Boston and Maine railroads A year ago this company introduced a pension system providing for the retirement of all employees reaching a certain age. The retirement fund is contributed by compulsory levies on the salaries of all those employed by the company. This system was voted on by the directors of the road and was approved by two-thirds of the men. Now it is compulsory for all in the employ of the road, except those who voted against it and registered their vote.

This example, Mr. Brandeis pointed out, shows the possibility of developing satisfactory insurance and pension systems.

THE "DOPESTER"

Yale and Harvard today.

The cross-country is over. See Monday's Tech.

Now for basketball.

This is fine football weather, but if it was only colder it would be great for hockey.

Larz Anderson's Hill is certainly the nemesis of a great many cross-country stars. How many went down to defeat today?

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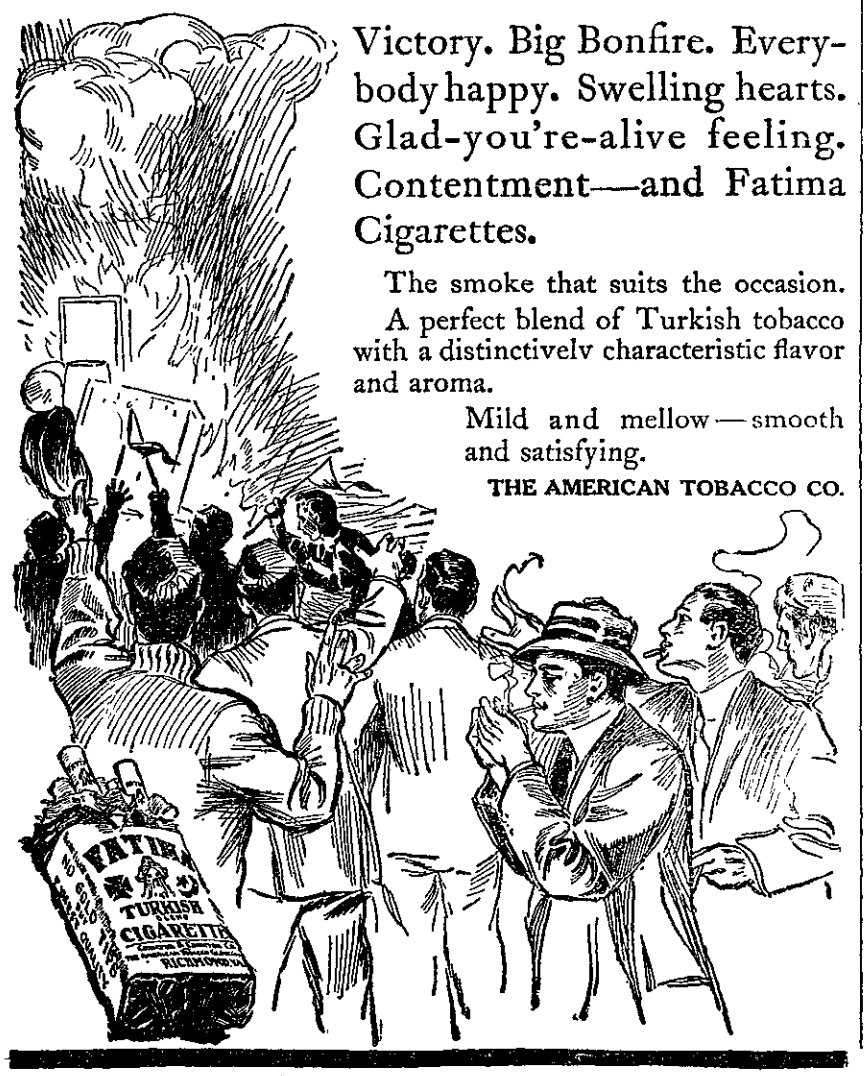

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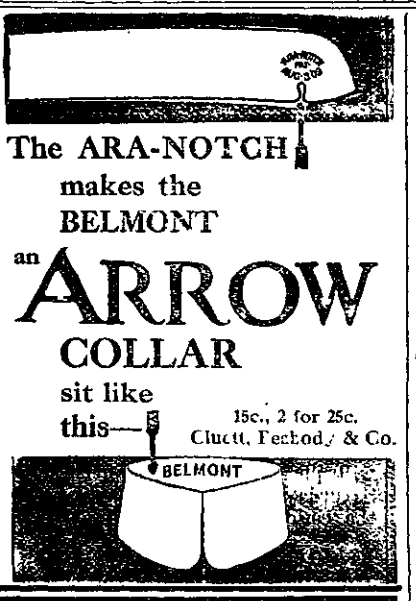

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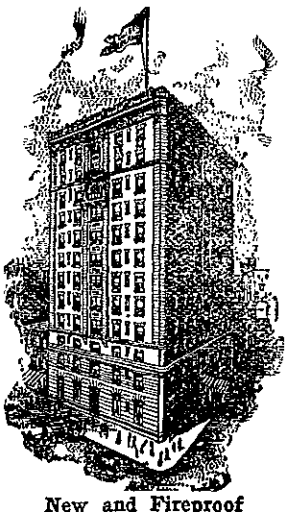

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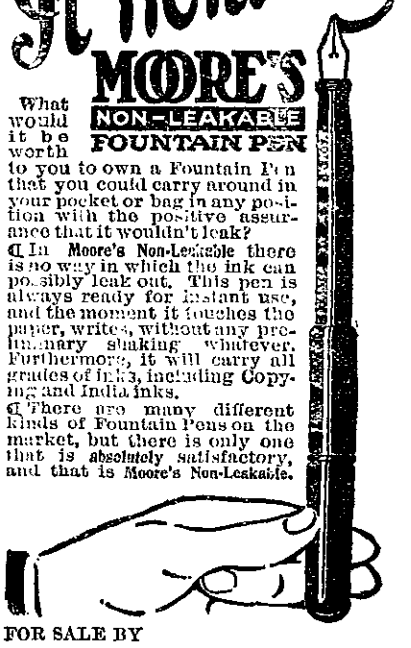

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GENERAL NOTICES.

All desiring to enter the lyric or music competition for Tech Show 1910, will please see Mr. Francis at 12:30, Saturday, in the Show office, room B, the Union. 44-5-6.

Water Analysis.

Course XI. 4th year. Water Analysis.
First exercise, Nov. 23.
Lectures—Tuesday 12 to 1, Room 23 Walker. (Nov. 23). Thursday 10 to 11, 23 W.
Laboratory, Tuesday and Thursday afternoons, Room 36 Walker.

WIRELESS SOCIETY.—All students who wish to become members of the M. I. T. Wireless Society should hand in their name and address to H. L. Woehling, Secretary, or address a note to him at the Cage, so that they can be voted on at the next meeting.

E. B. MOORE, President.

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Dining room in Union will not be open on Thanksgiving.

FOURTH YEAR.
Hydraulics—Course X.

The first exercise will be on Tuesday, Nov. 23, in room 54 Eng. A.

WALTER HUMPHREYS,
Registrar.

WIRELESS SOCIETY.—Meeting Monday at 4.00 P. M. in 11 Eng. B.

100 MEN WANTED.

If you have any spare time between 10 A. M. and 10 P. M. see J. K. Mason at the Christian Ass'n office, Engineering B, between one and two o'clock. The Boston-1915 Exposition wants men who can serve as guides through the Exposition.

EPISCOPALIANS.—The Tech Corporate Communion, held the third Snday in every month, will be held tomorrow at 9.00 A. M. in Trinity Church. All communicants are urged to attend.

The Physical Society will meet in Room 20, Walker, Thursday at 4.30. Dr. Fay will speak on "The Structure of Alloys." Those interested are invited to attend. D. F. COMSTOCK.

INTERCOLLEGIATE NEWS.

Upon his return from the inauguration of President Shanklin of Wesleyan, President Faunce of Brown said: "In all the inaugurations this fall three notes have been sounded. The first is the close fellowship of Eastern univedsites. They were not made to order or created by a state legislature, nor founded on any one philosophical system, but grew up gradually. The second note in the inaugural exercises has been that of unquenchable faith in the American college. The faith of the American people in the American college is deeper today than ever before. The third note that has been sounded is the necessity for making the college and maintaining the colloge, for serious intellectual toil. Life is too short for four years of idling, of dawdling, of dreaming. The world outside the college is doing harder work than ever before. If the college is to hold its place in public esteem it must keep up its standards of work. It behooves us, amid the large freedom of the modern college, which I believe in, which I want to preserve, it behooves us to remember that it is a serious world, where a man who does not put his utmost effort into his work soon falls behind."

In his annual report, President Butler of Columbia University stated that during the year, Columbia had received in gifts the large total of $498,002.07.

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